## WHAT IS CLAIMED IS:

1. An insulator capacitance analyzer for analyzing C-V characteristics of a first MIS structure having unknown capacitance, comprising:

a capacitance structure having known capacitance and configured so as to be serially connectable to the first MIS structure; and

- a measuring section for measuring synthesis capacitance of the serially-connected first MIS structure and capacitance structure.
- 2. An insulator capacitance analyzer according to claim 1, wherein the capacitance structure includes at least one of a second MIS structure, a dielectric, and a capacitor.
- 3. An insulator capacitance analyzer according to claim 1, wherein the capacitance structure is configured so as to be removable from the insulator capacitance analyzer.
- 4. An insulator capacitance analyzer according to claim 1, further comprising:

a plurality of capacitance structures each having known capacitance and configured so as to be serially

connectable to the first MOS structure; and

a switch for selecting one of the plurality of capacitance structures as the capacitance structure.

- 5. An insulator capacitance analyzer according to claim 1, wherein the equivalent silicon oxide thickness of the capacitance of the capacitance structure is 3 nm or more.
- 6. An insulator capacitance analyzer according to claim 1, wherein the capacitance structure is configured so as to prevent direct tunnel leakage current from flowing through the capacitance structure.
- 7. An insulator capacitance analysis method for analyzing C-V characteristics of a first MIS structure having unknown capacitance, comprising the steps of:

serially connecting the first MIS structure to a capacitance structure having known capacitance;

measuring synthesis capacitance of the serially-connected first MIS structure and capacitance structure; and

calculating capacitance of the first MIS structure based on the synthesis capacitance.